Author Index of Volume 45

Abdel-Aal, H. K., 99
Al-Zakri, A. S., 99
Angelov, G., 87
Assassa, G. M., 99

Baldi, G., B67 Baldyga, J., 25 Beschkov, J., B5 Biswas, M. N., 165 Bourne, J. R., 25 Brucato, A., 1 Brunjail, D., 123 Bruttini, R., B67

Casamatta, G., 111 Chase, H. A., B35 Chin, C. W., B13 Comiti, J., 123

Das, S. K., 165 Domenech, S., 149 Duhamet, J., 111 Dutt, N. V. K., 83

El-Sarha, M. E., 99 El-Swify, M. E., 99

Fang, T. N., B13 Felton, N., B13 Floquet, P., 149 Flores, F., B49

Galindo, E., B49 Gourdon, C., 87, 111 Greaves, H., B13

Haider, A., 43 Hands, N. P., 55 Hannote, M., B49 Harikrishnan, T. L., 133 Hashim, M. A., B27

Iatridis, D., 1

Journe, E., 87

Kannan, A., 133 Kmiec, A., 137 Kosseva, M., B5

de Lasa, H. I., 33 Lede, J., 9 Leschonski, K., 137 Levenspiel, O., 43 Li, H. Z., 9 Line, A., 87 Livingston, A. G., B35

Mahay, A., 33 Milot, J. F., 111 Mitra, A. K., 165 Ozbelge, H. O., 79

Pibouleau, L., 149

Ramachandran, K. B., B27 Ramachandran, P. A., 49 Ramana Rao, M. V., 75 Rizzuti, L., 1 Rovero, G., B67

Sedran, U., 33 Sheintuch, M., B57 Somer, T. G., 79 Soulignac, F., 9 Spedding, P. L., 55 Spence, D. R., 55

Tiu, C., B13 Torres, L., B49

Varma, Y. B. G., 133 Villermaux, J., 9

Wannenmacher, N., 43 Watkins, J. B., B13

Yue, P. L., 1

Zhang, G. T., 43

Antivor Index of Volume All

C

D

D

E

Subject Index of Volume 45

Anemometry

simultation of the flow patterns in a disc and doughnut column, 87

Axial dispersion

boundary integral solution method for axialdispersion-with-reaction problems, 49

Biomass

development of a phenol degrading fluidized bed bioreactor for constant biomass holdup, B35

Bioreactor

development of a phenol degrading fluidized bed bioreactor for constant biomass holdup, B35

Biotransformation

biotransformation of D-sorbitol to L-sorbose by *Glu*conobacter suboxydans entrapped in a polyacrylamide gel, B05

Boundary element

boundary integral solution method for axialdispersion-with-reaction problems, 49

Catalytic reactor

the cyclone reactor III: efficiency measurements of heat and mass transfer between the walls and a circulating gas, 9

Cellulose

simulation studies on simultaneous saccharification and fermentation of cellulose to ethanol, B27

Condenser pressure

other options of mass and energy input for steam jet refrigeration systems, 99

Configuration factors

determination of configuration factors in thermal radiative heat transfer: Monte Carlo methods, 75

Creosote

rheology of creosote-based wood preservative emulsions, B13

Cyclone reactor

the cyclone reactor III: efficiency measurements of heat and mass transfer between the walls and a circulating gas, 9

D-sorbitol

biotransformation of p-sorbitol to L-sorbose by *Glu-conobacter suboxydans* entrapped in a polyacrylamide gel, B05

Double feed stream

enumeration of separation sequences involving columns, 149

Emulsions

rheology of creosote-based wood preservative emulsions, B13

Engulfment

comparison of the engulfment and the interactionby-exchange-with-the-mean micromixing models, 25

Ethanol

simulation studies on simultaneous saccharification and fermentation of cellulose to ethanol, B27

Evaporator pressure

other options of mass and energy input for steam jet refrigeration systems, 99

Extraction column

simulation of a pneumatically pulsed liquid-liquid extraction column, 111

a numerical technique for the estimation of the true mass transfer coefficient in extraction columns, 133

Fermentation

simulation studies on simultaneous saccharification and fermentation of cellulose to ethanol, B27

Fermentation broths

apparent yield stress estimation in xanthan gum solutions and fermentation broths using a low-cost viscometer, B49

Filamentous populations

design criteria for population selection in activated sludge, B57

Flow patterns

simulation of the flow patterns in a disc and doughnut column, 87

Fluidization

development of a phenol degrading fluidized bed bioreactor for constant biomass holdup, B35

Fluidized photoreactors

the absorption of light energy in flat fluidized photoreactors, 1

Fluids

how to narrow the residence time distribution of fluids in laminar flow in pipes, 43

Forced flow

mass transfer and energy aspects for forced flow through packed beds of long cylindrical particles, 123

Fractions

a simple method of estimating the viscosity of petroleum crude oil and fractions, 83

Freeze-drying

experimentation and modelling of pharmaceutical lyophilization using a pilot plant, B67

Gas-solids injectors

analysis of two-phase flows in gas-solids injectors, 137

Gluconobacter suboxydans

biotransformation of p-sorbitol to L-sorbose by Gluconobacter suboxydans entrapped in a polyacrylamide gel, B05 Heat transfer

the cyclone reactor III: efficiency measurements of heat and mass transfer between the walls and a circulating gas, 9

determination of configuration factors in thermal radiative heat transfer: Monte Carlo methods, 75

Holdup

prediction of holdup in two-phase gas-liquid inclined flow, 55

Hydrocarbons

modelling methanol conversion to hydrocarbons: alternative kinetic models, 33

Inclined flow

prediction of holdup in two-phase gas-liquid inclined flow, 55

Kinetic models

modelling methanol conversion to hydrocarbons: alternative kinetic models, 33

L-sorbose

biotransformation of D-sorbitol to L-sorbose by Gluconobacter suboxydans entrapped in a polyacrylamide gel, B05

Laminar flow

how to narrow the residence time distribution of fluids in laminar flow in pipes, 43 non-newtonian liquid flow in bends, 165

Mass transfer

a numerical technique for the estimation of the true mass transfer coefficient in extraction columns, 133

the cyclone reactor III: efficiency measurements of heat and mass transfer between the walls and a circulating gas, 9

mass transfer and energy aspects for forced flow through packed beds of long cylindrical particles, 123

Methanol

modelling methanol conversion to hydrocarbons: alternative kinetic models, 33

Micromixing models

comparison of the engulfment and the interactionby-exchange-with-the-mean micromixing models, 25

Mixture pressure

other options of mass and energy input for steam jet refrigeration systems, 99

Modelling

experimentation and modelling of pharmaceutical lyophilization using a pilot plant, B67

Non-newtonian liquid flow in bends, 165

Packing

performance of a new packing with low pressure drop, 79

Petroleum

a simple method of estimating the viscosity of petroleum crude oil and fractions, 83

Pharmaceutical lyophilization

experimentation and modelling of pharmaceutical lyophilization using a pilot plant, B67

Phenol

development of a phenol degrading fluidized bed bioreactor for constant biomass holdup, B35

Photocatalysis

the absorption of light energy in flat fluidized photoreactors, 1

Pilot plant

experimentation and modelling of pharmaceutical lyophilization using a pilot plant, B67

Pneumatic pulsation

simulation of a pneumatically pulsed liquid-liquid extraction column, 111

Population selection

design criteria for population selection in activated sludge, B57

Power dissipation

mass transfer and energy aspects for forced flow through packed beds of long cylindrical particles, 123

Pressure

performance of a new packing with low pressure drop, 79

non-newtonian liquid flow in bends, 165

Pseudoplastic fluid

non-newtonian liquid flow in bends, 165

Reflectance

the absorption of light energy in flat fluidized photoreactors, 1

Residence time

how to narrow the residence time distribution of fluids in laminar flow in pipes, 43

Reynolds number

mass transfer and energy aspects for forced flow through packed beds of long cylindrical particles, 123

simulation of the flow patterns in a disc and doughnut column, 87

Rheology

rheology of creosote-based wood preservative emulsions, B13

Saccharification

simulation studies on simultaneous saccharification and fermentation of cellulose to ethanol, B27

Separation sequences

enumeration of separation sequences involving columns, 149

Single feed stream

enumeration of separation sequences involving columns, 149

Sludge

design criteria for population selection in activated sludge, B57

Steam jet refrigeration

other options of mass and energy input for steam jet refrigeration systems, 99 Turbulent isokinetics

simulation of the flow patterns in a disc and doughnut column, 87

Two-phase flows

analysis of two-phase flows in gas-solids injectors, 137

Viscometer

apparent yield stress estimation in xanthan gum solutions and fermentation broths using a low-cost viscometer, B49

Viscosity

ıl-

a simple method of estimating the viscosity of petroleum crude oil and fractions, 83

Weighting functions

boundary integral solution method for axialdispersion-with-reaction problems, 49

Xanthan gum

apparent yield stress estimation in xanthan gum solutions and fermentation broths using a low-cost viscometer, B49

Yield stress

apparent yield stress estimation in xanthan gum solutions and fermentation broths using a low-cost viscometer, B49